

## ABSTRACT OF THE DISCLOSURE

A method and device for chemical or biological analysis by a sensor provided with a monolithic chamber in the form of a multi-microtubular sheaf and a lateral integration measuring transducer. The method improves the usual method for a sensor evaluation of an analyte concentration in a fluid sample by multi-canalising in parallel the fluid sample fraction through channels of a monolithic reaction chamber, positioning a transducer system fully outside the surface of the shell of the reaction chamber and strictly in front of the lateral face thereof, carrying out an integral measurement of signals generated by the analyte combination and a receiver, which is also arranged in the reaction chamber, by a lateral transducer system coevally in all channels of the reaction chamber such that the presence of the analyte in all channels of the reaction chamber is simultaneously and globally quantified.